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Subject: MC Truth with EMC

Posted by [StefanoSpataro](#) on Mon, 22 Dec 2014 09:42:06 GMT

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I have committed a modification of the EmcHitProducer, in the part concerning the association to MC truth.

Before the MC index of the hit was associated to the primary tracks creating the secondaries in the crystal (i.e. if you have a photon creating  $e^+ e^-$  inside the crystal the hit is associated only to the primary photon, but if you have a pion decaying into muon + nu on the fly and the muon was hitting the emc, the hit was associated wrongly to the primary pion).

Now the code associates the hit to the first mother particle which was not produced inside EMC (if the particle is not primary). In both the previous cases the MC association should work.

I wait for some feedback.

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